Lmsc B030416 Cy 3

JOINT MESSAGEFORM

SECURITY CLASSIFICATION [redacted]

SPACE BELOW RESERVED FOR COMMUNICATION CENTER

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PRECEDENCE	TYPE MSG (Check)			ACCOUNTING SYMBOL	ORIG. OR REFERS TO	CLASSIFICATION OF REFERENCE
ACTION	BOOK	MULTI	SINGLE			
INFO						

FROM:
6595 AEROSPACE TEST WG VANDENBERG AFB, CALIF.

TO:
SPACE SYSTEMS DIV LOSA CALIF
VWZD - 1-9-23F

SUBJECT: 8-HOUR LAUNCH FLASH REPORT

I. A PROGRAM 162 SATELLITE VEHICLE CONSISTING OF THOR BOOSTER NO. 348 AND AGENA "B" ORBITAL STAGE NO. 1132 WAS LAUNCHED ON THE FIRST ATTEMPT FROM VAFB COMPLEX 75-3 PAD 5 AT 1339:08.93 PDT ON 1 SEPTEMBER 1962. THE PRIMARY LAUNCH OBJECTIVE, TO PLACE THE AGENA SATELLITE WITH PAYLOAD IN A NEAR-POLAR ORBIT, WAS ACCOMPLISHED. THE VTS RADAR PLOTBOARD INDICATED THE FOLLOWING APPROXIMATE INJECTION CONDITIONS: ALTITUDE, 191 STATUTE MILES; PAD REFERENCED VELOCITY, 25,450 FPS; ELEVATION FLIGHT PATH ANGLE, APPROXIMATELY 0 DEG; AZIMUTH FLIGHT PATH ANGLE, APPROXIMATELY 174.5 DEG. THE ORBITAL PERIOD ATTAINED APPEARS TO BE SLIGHTLY ABOVE NOMINAL, BASED ON FIRST PASS ACQUISITION.

SPECIAL INSTRUCTIONS

CLASSIFICATION CHANGED TO [redacted]
By Authority of HQ R 205-2
By [redacted] Date APR 63

DOWNGRADED AT 3 YEAR INTERVALS
DECLASSIFIED AFTER 12 YEARS
DOD DIRECTIVE 5200.10

DATE	TIME
1	
MONTH	YEAR
Sep	62

WRITER
SYMBOL
TYPED NAME AND TITLE (Signature, if required)
C. S. WALLER, LT. COL USAF
PHONE 866-5831 | PAGE NR. 1 | NR. OF PAGES
SECURITY CLASSIFICATION [redacted]

RELEASER
SIGNATURE
TYPED (or stamped) NAME AND TITLE

DD FORM 1 MAY 58 173 REPLACES DD FORM 173, 1 OCT 49, WHICH WILL BE USED UNTIL EXHAUSTED

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FROM:

6595 AEROSPACE TEST WG VANDENBERG AFB, CALIF.

PRELIMINARY VALUES OF SIGNIFICANT LAUNCH EVENTS ARE:

LIFTOFF (1339:08.93 PDT)	ZERO	
STEERING INITIATED	92.10	SEC
MECO (S1)	145.05	SEC
VECO	154.05	SEC
ENABLE D1 AND D2 (S2)	149.92	SEC
D1 ON	152.63	SEC
D1 OFF	155.62	SEC
D2 ON	155.76	SEC
D2 OFF	158.81	SEC
SEPARATION COMMAND	159.68	SEC
SEPARATION COMPLETE	162.03	SEC
ULLAGE ROCKET IGNITION	203.8	SEC
AGENA ENGINE IGNITION	215.8	SEC
AGENA THRUST ATTAINMENT (90 PER CENT PC)	217.07	SEC
AGENA BURNOUT (70 PER CENT PC)	461.04	SEC
VTS VERLORT RADAR FADE	524	SEC
VTS ACQUISITION BEACON FADE	545	SEC
VTS TELEMETRY DATA FADE (LINK 1)	554	SEC

SYMBOL | PAGE NR 2 | NR OF PAGES | SECURITY CLASSIFICATION [redacted] | INITIALS

DD FORM 1 MAY 55 173-1

[redacted]

U.S. GOVERNMENT PRINTING OFFICE: 1958—930472

JOINT MESSAGEFORM - CONTINUATION SHEET | SECURITY CLASSIFICATION [redacted]

FROM:

6595 AEROSPACE TEST WG VANDENBERG AFB, CALIF. [redacted]

II. ALL BOOSTER SUBSYSTEMS PERFORMED SATISFACTORILY AND, IN RESPONSE TO GROUND GUIDANCE SYSTEM COMMANDS, PROVIDED THE REQUIRED COAST APOGEE CONDITIONS. NO ABNORMALITIES HAVE BEEN NOTED.

GROUND GUIDANCE SYSTEM DATA INDICATE THAT BOOSTER COAST APOGEE ALTITUDE WAS 157.90 NM (NOMINAL: 157.92NM) AND THE VELOCITY WAS 8937 FPS (NOMINAL: 8939 FPS).

III. ALL AGENA VEHICLE SUBSYSTEMS PERFORMED SATISFACTORILY DURING LAUNCH TO PROVIDE THE PROPER TRAJECTORY CONDITIONS AT AGENA ENGINE SHUTDOWN. A SLIGHT ANOMALY WAS NOTED IN THAT HEAVY EXTRANEOUS RADAR INTERFERENCE PENETRATED THE S-BAND BEACON RECEIVER CHANNEL THROUGHOUT THE LAUNCH. RECEIVER ACTIVITY BURSTS WERE RECORDED IN EXCESS OF 1600 PPS. LIGHT INTERFERENCE WAS RECORDED ON THE TRANSMITTER CHANNEL, BUT RADAR TRACK WAS NOT JEOPARDIZED AND AUTO-LOCK WAS MAINTAINED.

AT THE TIME OF SIGNAL FADE AT VTS, ALL VEHICLE SUBSYSTEMS WERE FUNCTIONING NORMALLY AND THE ORBITAL TIMER WAS SET AT 5631 SEC (STEP37), IN THE RESET-ON POSITION, IN THE INCREASE MODE, AND ALTERNATE RE-ENTRY DISARM STATE.

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JOINT MESSAGEFORM - CONTINUATION SHEET | SECURITY CLASSIFICATION [redacted]

FROM: [redacted]

6595 AEROSPACE TEST WG VANDENBERG AFB, CALIF.

IV. THE AEROSPACE GROUND EQUIPMENT FUNCTIONED PROPERLY TO ACCOMPLISH BOOSTER AND ORBITAL STAGE PRE-LAUNCH CHECKOUT, EXCEPT FOR THE LANDLINE GUIDANCE GAS PRESSURIZATION MEASUREMENT WHICH WAS NON-FUNCTIONAL. LANDLINE RECORDER NO. 9 INDICATED ERRONEOUSLY DUE EITHER TO A MALFUNCTION IN THE RECORDER OR A CALIBRATION ERROR. IN TASK 6 THE 108 PPS SIGNAL TO THE PAD CAMERAS INDICATED UNSATISFACTORY. PROPER OPERATION WAS RESTORED BY KELLOGG PERSONNEL.

V. THE COUNTDOWN WAS INITIATED AT 0600 PDT AND PROGRESSED TO LIFTOFF AT 1339:06.93 PDT WITH NO HOLDS; HOWEVER, THE COUNTDOWN CLOCK WAS STOPPED FOR 9 MIN. TO ADJUST TO A RESCHEDULED LIFTOFF TIME OF 1339 PDT.

THE FOLLOWING IRREGULARITIES [redacted] WERE ENCOUNTERED: DURING TASK 11, ADDITIONAL PAYLOAD CHECKS WERE PERFORMED. FROM TASK 16 THROUGH LIFTOFF THE AGENA ENGINE LIP SEAL PRESSURE INDICATED AT THE MAXIMUM SPECIFICATION LIMIT. THE LANDLINE INDICATION OF GUIDANCE GAS PRESSURIZATION WAS NON-FUNCTIONAL AND ALL MEASUREMENTS ON LANDLINE RECORDER NO. 9 READ IN ERROR THROUGHOUT THE COUNTDOWN.

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JOINT MESSAGEFORM - CONTINUATION SHEET

SECURITY CLASSIFICATION [redacted]

FROM:

6593 AEROSPACE TEST WG VANDENBERG AFB, CALIF.

PAD DAMAGE WAS NORMAL.

NORMAL TURN-AROUND SCHEDULE IS EXPECTED.

13 JAN 1959

7 APR 1959

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DD FORM 1 MAY 55 173-1

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